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(54) WORK LAMP WITH MAGNETIC TRAY AND TOOLS

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	F21L 4/04	(2006.01)
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See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

3,231,730 A 4,364,104 A 5,915,825 A *	12/1982	
		362/138 Reynolds F21V 14/045
6,457,841 B1*	10/2002	362/109 Lynch F21L 4/045 362/197

(Continued)

FOREIGN PATENT DOCUMENTS

CN	201202980 Y	3/2009		
CN	201892036 U	7/2011		
	(Continued)			

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(57) ABSTRACT

A lighting device provides a storage tray or cavity. The lighting device includes a head section pivotally connected to a base section via a connection assembly. The head section includes a light source, and the base section includes a storage cavity with a magnetic floor. The connection assembly allows the head section to be variably positioned relative to the base section by pivoting simultaneously about mutually orthogonal axes, one of which is fixed relative to the base section, and the other of which is movable relative to the base section. The lighting device may optionally include removable tools, such as a telescopic pick-up tool, and/or various means for attaching the lighting device to a support.

13 Claims, 9 Drawing Sheets

